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	BIOGRAPHICAL SKETCH
	第 <b>6</b>
	NAME BIRTHDATE (Ma., Osy, Yr.)
	George J. Doellgast Research Fellow
	PLACE OF BIRTH (City, State, Country) PRESENT NATIONALITY (If non-U.S. citizen, SEX
	indicate kind of visu and expiration date)
	R Male   Female
	EDUCATION (Begin with baccalaureate training and include postdoctoral)
	INSTITUTION AND LOCATION DEGREE CONFERRED FIELD
	Fordham College, Bronx, New York B.S. 1966 Chemistry 3 Columbia School of Engineering and Applied
	では Sciences 大変な Region B.S. 1967 Applied Biology 全、
	Purdue University, W. Lafayette, Indiana   Ph.D.   1972   Biochemistry
	HONORS CONTRACTOR OF THE PROPERTY OF THE PROPE
	MAJOR RESEARCH INTEREST ROLE IN PROPOSED PROJECT
9 27 2 E	Enzymology Collaborator
	RESEARCH SUPPORT (See instructions)
200 Th	None None
1 2 3 To a 1	
	RESEARCH AND/OR PROFESSIONAL EXPERIENCE (Starting with present position, list training and experience relevant to area of project. List all
	or most representative publications. Do not exceed 3 pages for each individual.)
	or most representative publications. Do not exceed 3 pages for each individual.
	Research and Professional Experience:
	Research and Professional Experience:  Ph.D. Thesis Research, 1967-72  Purdue University, Lafayette: Indiana
	Research and Professional Experience:  Ph.D. Thesis Research, 1967-72  Purdue University, Lafayette; Indiana Research Assistant, 1964-66  Columbia College of Physicians and Surgeons
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binding site using a number of methods, including affinity chromatography, competition of leucine analogues for the leucine binding site in kinetic assays, and binding of dansyl amino acids as specific fluorescent probes of the leucine binding site.

## Techniques Known:

Protein fractionation: ammonium sulfate and polyethylene glycol precipitation; ion exchange, Sephadex, and affinity chromatography; preparative disc gel electrophoresis.

Spectroscopic techniques: ultraviolet, visible and fluorescence spectroscopy.

Counting techniques: liquid scintillation.

Other fractionation techniques: amino acid analysis (Beckmann), liquid-liquid partition chromatography, TLC and adsorption chromatography.

Protein structure: amino terminal analysis (dansylation), tryptic and cyanogen bromide peptide cleavage.

## Publications:

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Janoski, A.H., Doellgast, G.J. and Kelly, W.G., On the metabolism of  $16-\alpha$ -hydroxy-C-21 steroids. I. Microbial synthesis of radioisotopically labeled  $16-\alpha$ -hydroxy-lated steroids in high specific activity. Steroids 13, 179, 1969.

Doellgast, G.J. and Kohlhaw, G.B., Affinity chromatography of  $\alpha$ -isopropylmalate syn-hase; evidence for conformational changes. Fed. Proc. 31, 424, 1972. (Abstract)

Doellgast, G.J. and Kohlhaw, G.B., The leucine binding site of  $\alpha$ -isopropylmalate synthase from Salmonella Typhimurium. I. Affinity chromatography and reversal of inhibition by analogues. (Manuscript in preparation)

Doellgast, G.J. and Kohlhaw, G.B., The leucine binding site of  $\alpha$ -isopropylmalate synthase from Salmonella Typhimurium. II. Dansyl amino acids as specific binding site probes. (Manuscript in preparation)

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